

ABSTRACT

A steering apparatus for a vehicle calculates an assist force $F1$ corresponding to a steering torque T of a driver on the basis of a table shown in Step 605 in such a manner that the assist force $F1$ changes in proportion to the steering torque T , and further calculates a coefficient Kt corresponding to the absolute value of an actual lateral acceleration Gy on the basis of a table shown in Step 610. The apparatus calculates a final assist force F through multiplication of the assist force $F1$ by the coefficient Kt , and controls an electric motor of a steering actuator so as to generate the final assist force F for the steering operation of the driver. As a result, when the absolute value of the actual lateral acceleration Gy is not less than a value $Gyth$, the final assist force F decreases with an increase in the absolute value, whereby abrupt steering operation by the driver can be avoided.